

*JPW*  
PATENT

Attorney Docket No.: 2003-IP-009957 U1 USA



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of: Brett Masters et al.  
Serial No.: 10/826,952  
Filed: April 15, 2004  
Entitled: VIBRATION BASED POWER  
GENERATOR

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

As listed on the accompanying form PTO-SB-08, the Applicants hereby call the examiner's attention to the following information of which they are aware, in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

U.S. Patents:

5,554,922	4,387,318	4,467,236	5,839,508,	6,504,258	6,011,346
5,703,474	5,801,475	5,907,211	4,769,569	4,808,874	

Published U.S. Patent Applications:

2002/0096887

Foreign Patent Documents:

WO 02/057589      WO 02/10553

Other Documents:

"Extracting Energy From Natural Flow," NASA Tech. Briefs, Spring 1980, Vol. 5, No. 1, MFS-23989.

Parkinson, Geoffrey, "Phenomena and Modelling of Flow-Induced Vibrations of Bluff Bodies", Progress in Aerospace Sciences, Vol. 26, pp. 169-224, 1989.

"Characteristics of Relaxor-Based Piezoelectric Single Crystals for Ultrasonic Transducers," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 44(5):1140-1147 (September 1997)

Hall & Prechtl "Development of a Piezoelectric Servoflap for Helicopter Rotor Control," Smart Materials and Structures Vol 5 1996 pp 26-34

PI (Physik Instrumente), "NanoAutomation®, Piezo Technology NanoPositioning MicroPositioning Hexapods", dated 1996-2004

PI, "Introduction to Piezo Actuators", dated 1996-2004

"Closed-Loop, High Deflection PICMA® Multilayer Piezo Bender Actuators", undated

"PICA-Stack Piezoceramic Actuators Versatile Piezoelectric Power", undated

This Information Disclosure Statement is being filed under the provisions of 37 CFR §1.97(b)(3), which provides for the timely filing of an Information Disclosure Statement before the mailing of a first Office Action on the merits.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. Further, the filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Written notification that the listed documents have been considered in their entirety, by return of a copy of the enclosed form completed by the examiner, is respectfully requested.

Respectfully submitted,

KONNEKER & SMITH, P.C.



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Attorney for Applicants  
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Dated: June 2, 2004

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450,

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**Substitute for form 1449B/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet

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**Complete if Known**

10/826,952

April 15, 2004

Brett Masters

Unassigned

## Unassigned

2003-IP-009957 U1 USA

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**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"Extracting Energy From Natural Flow," NASA Tech. Briefs, Spring 1980, Vol. 5, No. 1, MFS-23989.	
		Parkinson, Geoffrey, "Phenomena and Modelling of Flow-Induced Vibrations of Bluff Bodies", Progress in Aerospace Sciences, Vol. 26, pp. 169-224, 1989.	
		"Characteristics of Relaxor-Based Piezoelectric Single Crystals for Ultrasonic Transducers," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 44(5):1140-1147 (September 1997)	
		Hall & Prechtl "Development of a Piezoelectric Servoflap for Helicopter Rotor Control," Smart Materials and Structures Vol 5 1996 pp 26-34	
		PI (Physik Instrumente), "NanoAutomation®, Piezo Technology NanoPositioning MicroPositioning Hexapods", dated 1996-2004	
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		"Closed-Loop, High Deflection PICMA® Multilayer Piezo Bender Actuators", undated	
		"PICA-Stack Piezoceramic Actuators Versatile Piezoelectric Power", undated	

Examiner Signature \_\_\_\_\_ Date Considered \_\_\_\_\_

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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